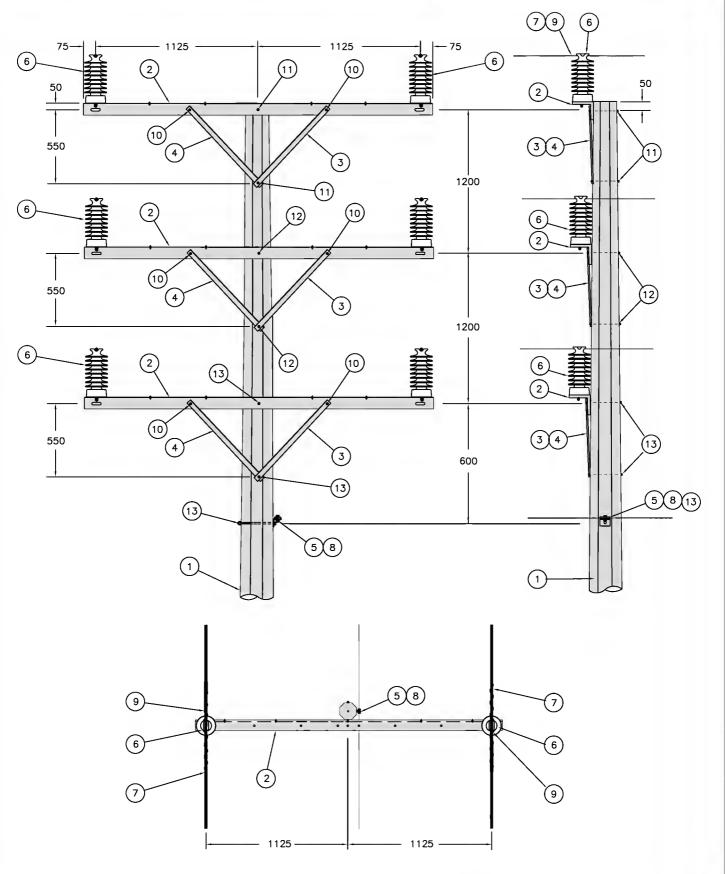


# الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

	SDCS-01
Dated:	24-06-2003



DRW.108-OC14D, 14M, DOUBLE CIRCUIT, INTERMIDIATE STRUCTURE, 0°



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D — 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01 Page	37
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02 Fig. 0	01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 0	04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02 Fig. 0	04
05	1	Earthwire Support Plate	20-SDMS-02 Fig. 0	06
06	6	Line Post Insulator	15-SDMS-01 Claus	e 4.2
07	6 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02 Fig. 3	38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02 Fig. 3	38
09	6 Set	Preformed Line Post Insulator Top Tie For Merlin With Armour	20-SDMS-02 Fig. 3	35
10	6	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02 Fig. 1	15
11	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02 Fig. 1	15
12	2	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02 Fig. 1	15
13	3	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02 Fig. 1	15
14	1	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 4	49/50
15	22M	Anti—Climbing Device, Barbed Wire	20-SDMS-02 Fig. 1	13
16	2	Buckle Type, Locking Clip, Barbed Wire	20-SDMS-02 Fig. 1	13
17	1 Set	Pole Numbering Base Plate	20-SDMS-02 Fig. 5	51
18	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 5	51
			V	
			Ť.	
+ 1		170.5mm2 ACSR/AW, MERLIN		

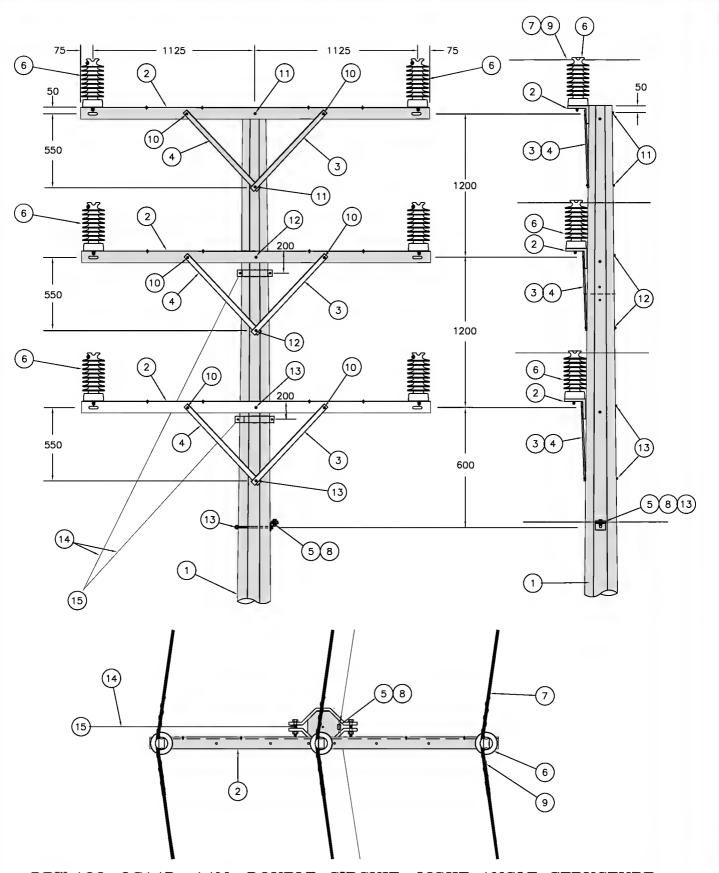
DRW.108A-OC14D,14M, DOUBLE CIRCUIT, INTERMEDIATE STRUCTURE 0°



### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01
Dated: 24-06-2003



DRW.109-OC14D, 14M, DOUBLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC14D — 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37	
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
06	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
07	6 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38	
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
09	6 Set	Preformed Line Post Insulator Side Tie For Merlin ACSR/AW W/Armour	20-SDMS-02	Fig. 36	
10	6	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	2	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
13	3	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
14	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Mim)			
15	1 Set	M.V.—D.C. Two Stay Assembly	20-SDMS-02	Drw. 305	
16	1	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
17	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
18	2	Buckle Type, Locking Clip, Barbed Wire	20-SDMS-02	Fig. 13	
19	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
20	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
7.7			-		
Ţ					
		170.5mm2 ACSR/AW, MERLIN			

DRW.109A-OC14D, 14M, DOUBLE CIRCUIT, LIGHT ANGLE STRUCTURE 6°-15° WITH STAYS

Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS 24-06-2003 Dated: <u>(6)</u> 1200 (18) 1200 (18) 600 10 50 (20) (1)(13) (21) (21) (18)

DRW.110-OC14D, 14M, DOUBLE CIRCUIT MEDIUM ANGLE STRUCTURE, 16°-60° WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 2

24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D - 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Broce — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.
06	12 Set	Suspension Insulotor	15-SDMS-01	Page 23
07	24	Mochine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Wosher	20-SDMS-02	Fig. 15
80	2	Mochine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
09	2	Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
10	3	Mochine Bolt, M20x310mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
11	2	Stroin Clomp, Stroight Line Deodend Type For Quoil	20-SDMS-02	Fig. 30
12	12	Stroin Clomp, 3 U—Bolts Type For Merlin	20-SDMS-02	Fig. 29
13	14	Anchor Shackle	20-SDMS-02	Fig. 20
14	12	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Eorthwire Suspension Support	20-SDMS-02	Fig. 05
16	3	Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35
17	6	Double Arming Plote, 100x12x700mm	20-SDMS-02	Fig. 07
18	6	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
19	1	Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)	20-SDMS-02	Fig. 39
20	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
21	2 Set	M.VD.C. Two Stay Assembly	20-SDMS-02	Drw. 307
22	1 Set	Donger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
23	22M	Anti-Climbing Device, Borbed Wire	20-SDMS-02	Fig. 13
24	2	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
25	1 Set	Pole Numbering Bose Plote	20-SDMS-02	Fig. 51
26	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.110A-OC14D, 14M, D.C. MEDIUM ANGLE STRUC. 16°-60° W/STAYS

Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS Dated: 24-06-2003 <u>(6)</u> 34 1200 (18) 1200 (18) 600 (10 (20) 50 (1)(13) (21) (1B)

DRW.111-OC14D, 14M, DOUBLE CIRCUIT HEAVY ANGLE STRUCTURE, 61°-90° WITH STAYS



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES	
01	1	OC14D — 14 Meter Steel Pale, HDG, Dauble Circuit	20-SDMS-01	Page 37	
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	6	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
06	12 Set	Suspensian Insulatar	15-SDMS-01	Page 23	
07	24	Machine Balt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
80	2	Machine Balt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
09	2	Machine Balt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	3	Machine Balt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	2	Strain Clamp, Straight Line Deadend Type Far Quail	20-SDMS-02	Fig. 30	
12	12	Strain Clamp, 3 U—Balts Type Far Merlin	20-SDMS-02	Fig. 29	
13	14	Anchor Shackle	20-SDMS-02	Fig. 20	
14	12	Clevis Eye Extensian	20-SDMS-02	Fig. 21	
15	1	Earthwire Suspensian Suppart	20-SDMS-02	Fig. 05	
16	3	Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35	
17	6	Dauble Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
18	6	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39	
19	1	Parallel Graave Camp. Cannectar far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
20	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
21	2 Set	M.V.—D.C. Two Stay Assembly	20-SDMS-02	Drw. 306	
22	1 Set	Danger Sign Plate Camplete With Its Accessaries	20-SDMS-02	Fig. 49&50	
23	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
24	2	Buckle Type, Lacking Clip far Barbed Wire	20-SDMS-02	Fig. 13	
25	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
26	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51	
		170.5mm ACSR/AW, MERLIN			

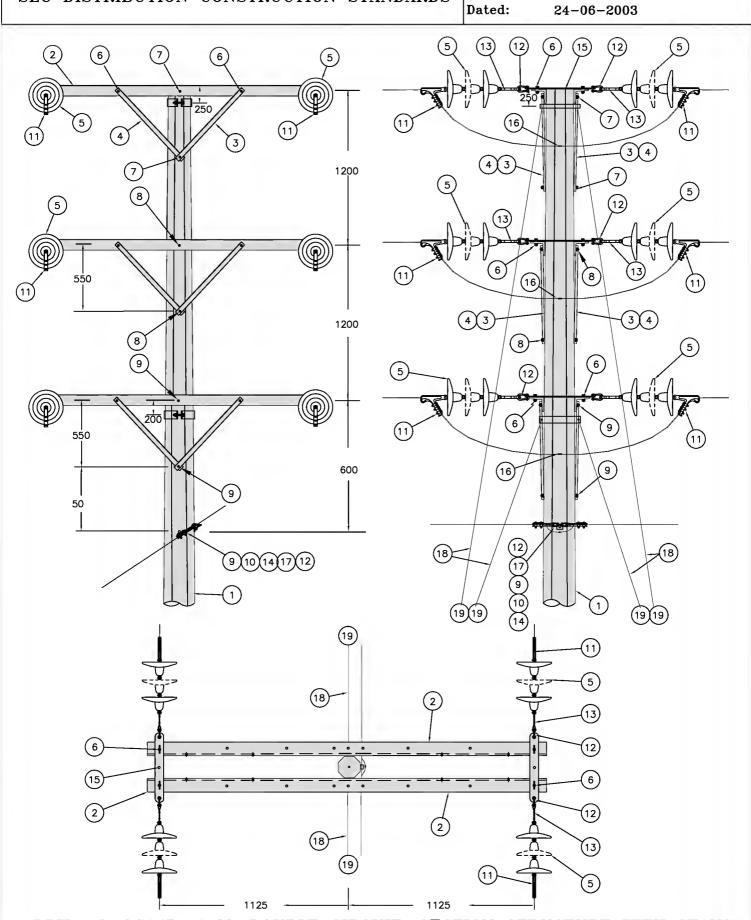
DRW.111A-OC14D, 14M, DOUBLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS



### الشركة السعودية للكهرباء

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DRW.112-OC14D, 14M, DOUBLE CIRCUIT, SECTION STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

SERIAL NO.	QTY	QTY BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC14D — 14 Meter Steel Pale, HDG, Dauble Circuit	20-SDMS-01	Page 37	
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	6	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	12 Set	Suspensian Insulatar	15-SDMS-01	Page 23	
06	24	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
07	2	Machine Balt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
80	2	Machine Balt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
09	3	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
10	2	Strain Clamp, Straight Line Deadend Type For Quail	20-SDMS-02	Fig. 30	
11	12	Strain Clamp, 3 U—Balts Type Far Merlin	20-SDMS-02	Fig. 29	
12	14	Anchar Shackle	20-SDMS-02	Fig. 20	
13	12	Clevis Eye Extensian	20-SDMS-02	Fig. 21	
14	1	Earthwire Suspensian Suppart	20-SDMS-02	Fig. 05	
15	6	Dauble Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
16	6	Parallel Graave Camp. Cannectar far 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39	
17	1	Parallel Graave Camp. Cannectar far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39	
18	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
19	1 Set	M.V.—D.C. Section Stay Assembly	20-SDMS-02	Drw. 308	
20	1 Set	Danger Sign Plate Camplete With Its Accessories	20-SDMS-02	Fig. 49/50	
21	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
22	2	Buckle Type, Lacking Clip far Barbed Wire	20-SDMS-02	Fig. 13	
23	1 Set	Pale Numbering Base Plate	20-SDMS-02	Fig. 51	
24	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51	
		170.5mm2 ACSR/AW, MERLIN			

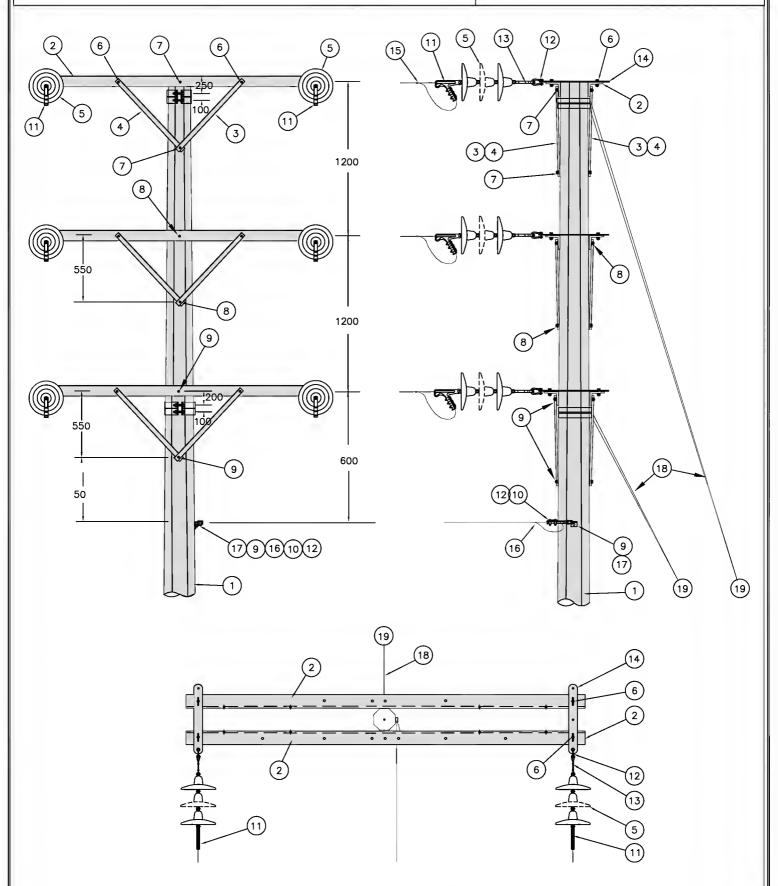
DRW.112A-OC14D,14M, DOUBLE CIRCUIT, SECTION STRUCTURE WITH STAYS



### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01
Dated: 24-06-2003



DRW.113-OC14D,14M, DOUBLE CIRCUIT, TERMINAL STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated:

24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENC	ES
01	1	OC14D — 14 Meter Steel Pale, HDG, Dauble Circuit	20-SDMS-01	Page 37
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	6 Set	Suspensian Insulatar	15-SDMS-01	Page 23
06	24	Machine Balt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	2	Machine Balt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Balt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Strain Clamp, Straight Line Deadend Type Far Quail	20-SDMS-02	Fig. 30
11	6	Strain Clamp, 3 U—Balts Type Far Merlin	20-SDMS-02	Fig. 29
12	7	Anchar Shackle	20-SDMS-02	Fig. 20
13	6	Clevis Eye Extensian	20-SDMS-02	Fig. 21
14	6	Dauble Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
15	6	Parallel Graave Clamp, Three Balt Type far Merlin ACSR Canductar	20-SDMS-02	Fig.
16	1	Parallel Graave Clamp, Twa Balt Type far Quail ACSR Canductar	20-SDMS-02	Fig.
17	1	Earthwire Suspensian Support	20-SDMS-02	Fig. 05
18	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	2 Set	M.V.—D.C. Twa Stay Assembly	20-SDMS-02	Drw. 307
20	1 Set	Danger Sign Plate Camplete With Its Accessaries	20-SDMS-02	Fig. 49/5
21	22M	Anti—Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pale Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		1

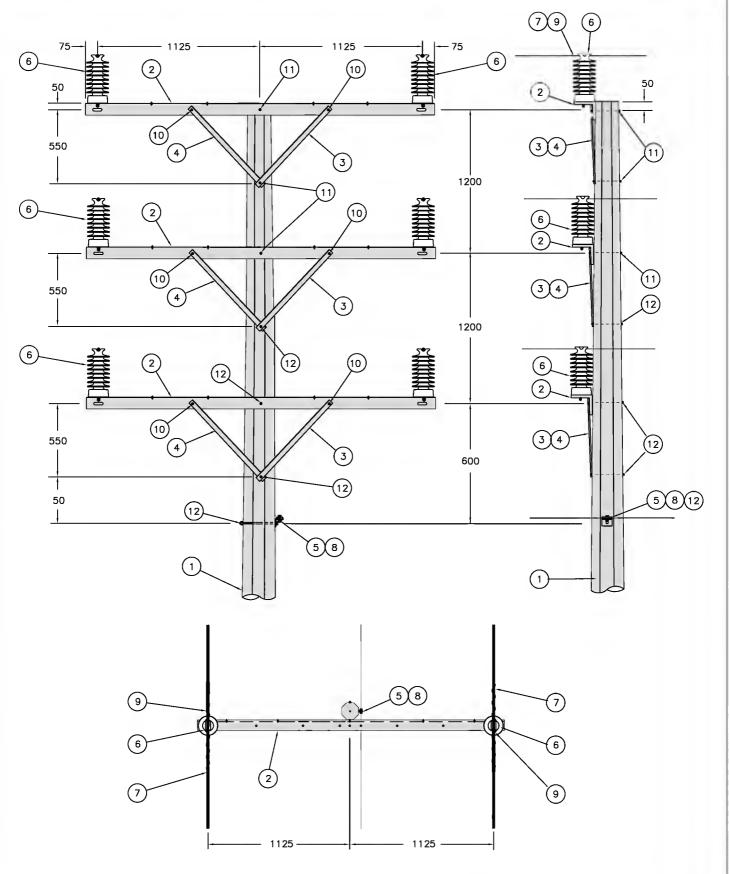
DRW.113A-OC14D,14M, DOUBLE CIRCUIT, TERMINAL STRUCTURE WITH STAYS



## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

	SDCS-01
Dated:	24-06-2003



DRW.114-OC15S/D,15M, DOUBLE CIRCUIT, INTERMEDIATE STRUCTURE 0°



Dated:

# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC15S/D — 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38	
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04	
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06	
06	6	Line Post Insulator	15-SDMS-01	Clause 4.2	
07	6 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38	
80	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
09	6 Set	Preformed Line Post Insulator Top Tie For Merlin ACSR/AW W/Armour	20-SDMS-02	Fig. 35	
10	6	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	4	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
13	1	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50	
14	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
15	2	Buckle Type, Locking Clip, Barbed Wire	20-SDMS-02	Fig. 13	
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
		170.5mm2 ACSR/AW, MERLIN			

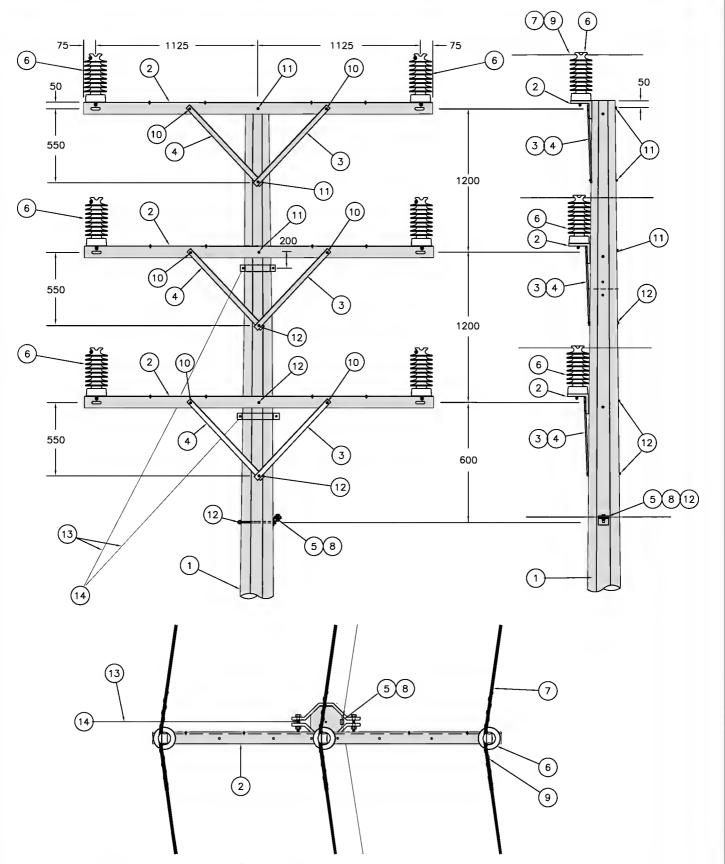
DRW.114A-OC15S/D,15M, DOUBLE CIRCUIT, INTERMEDIATE STRUCTURE 0°



### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01
Dated: 24-06-2003



DRW.115-OC15S/D, 15M, DOUBLE CIRCUIT, LIGHT ANGLE STRUCTURE 1°-15° WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
01	1	OC15S/D - 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	3	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace — L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	6 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	6 Set	Preformed Line Post Insulator Side Tie For Merlin ACSR/AW W/Armour	20-SDMS-02	Fig. 36
10	6	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
14	1 Set	M.V.—D.C. Two Stay Assembly	20-SDMS-02	Drw. 306
15	1	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
16	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
17	2	Buckle Type, Locking Clip, Barbed Wire	20-SDMS-02	Fig. 13
18	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
19	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
			-	
<u> </u>				
	-			
7				
		170.5mm2 ACSR/AW, MERLIN		

DRW.115A-OC15S/D, 15M, DOUBLE CIRCUIT, LIGHT ANGLE STRUCTURE 1°-15° WITH STAYS

Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS Dated: 24-06-2003 **6** 34 1200 550 1200 600 11 13 17 50 (19) (1)(13) (20) (5)(15) DRW.116-OC15S/D, 15M, DOUBLE CIRCUIT MEDIUM ANGLE STRUCTURE, 16°-60° WITH STAYS ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

No.   OT   1   OC155/D - 15 Meter Steel Pole, HDG, Double Circuit   20~50M5~01   Pope 38								
02   6   Crossarm - L 100x100x12x2400mm L.G.   20-SDMS-02   Fig. 01	SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION REFERENCES					
03   6   Brace   L 50x50x4x828mm L.G.   20-SDMS-02   Fig. 04   6   Brace   L 50x50x4x828mm L.G.   With One End Clipped   20-SDMS-02   Fig. 04   05   3   Line Post Insulator   15-SDMS-01   15-SDMS-02   15-SDMS-02	01	1	OC15S/D - 15 Meter Steel Pole, HDG, Double Circuit 20-SDMS-01 Page					
04   6   Brace - L 50x50x4x828mm L.G. With One End Clipped   20-SDMS-02   Fig. 04   05   3   Line Post Insulator   13-SDMS-01   Clause 4.2.8   06   12 Set Suspension Insulator   15-SDMS-01   Fage 23   07   24   Machine Bolt, M20x60mm W/1 Nut, 2 Flot Washers & 1 Spring Wosher 20-SDMS-02   Fig. 15   09   5   Machine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher 20-SDMS-02   Fig. 15   10   1   Eorthwire Suspension Support   20-SDMS-02   Fig. 15   10   1   Eorthwire Suspension Support   20-SDMS-02   Fig. 15   10   1   Eorthwire Suspension Support   20-SDMS-02   Fig. 30   11   2   Stroin Clomp, Stroight Line Deadend Type For Quali   20-SDMS-02   Fig. 30   12   12   Stroin Clomp, 3 U-Bolts Type For Merlin   20-SDMS-02   Fig. 20   20-SDMS-02   Fig. 20   13   14   Anchor Shackle   20-SDMS-02   Fig. 20   14   12   Clevis Eye Extension   20-SDMS-02   Fig. 21   15   3   Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)   20-SDMS-02   Fig. 35   16   6   Double Arming Plate, 100x12x700mm   20-SDMS-02   Fig. 37   17   6   Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Quail)   20-SDMS-02   Fig. 39   18   1   Porallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)   20-SDMS-02   Fig. 39   19   63M   Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)   20-SDMS-02   Fig. 39   19   63M   Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)   20-SDMS-02   Fig. 39   19   63M   Anti-Climbing Device, Borbed Wire   20-SDMS-02   Fig. 51   20-SDMS-0	02	6	Crossarm — L 100x100x12x2400mm L.G. 20-SDMS-02 Fig. (					
15	03	6	Broce — L 50x50x4x828mm L.G.	50x4x828mm L.G. 20-SDMS-02 Fig. 0				
06         12 Set         Suspension Insulctor         15-SDMS-01         Page 23           07         24         Mochine Bolt, M20x26mm W/1 Nut, 2 Flot Washers & 1 Spring Wosher         20-SDMS-02         Fig. 15           08         2         Mochine Bolt, M20x255mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           09         5         Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           10         1         Eorthwire Suspension Support         20-SDMS-02         Fig. 05           11         2         Stroin Clomp, Stroight Line Deodend Type For Quoil         20-SDMS-02         Fig. 30           12         12         Stroin Clomp, 3 U-Bolts Type For Merlin         20-SDMS-02         Fig. 29           13         14         Anchor Shackle         20-SDMS-02         Fig. 20           14         12         Clevis Eye Extension         20-SDMS-02         Fig. 35           15         3         Preformed Line Post Insulctor Top Tie for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 92           15         3         Preformed Line Post Insulctor Top Tie for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 35           16         6         Double Arming Plate         20-SDMS-02	04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04			
07         24         Mochine Bolt, M20x60mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           08         2         Mochine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           09         5         Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           10         1         Eorthwire Suspension Support         20-SDMS-02         Fig. 05           11         2         Stroin Clomp, Stroight Line Deodend Type For Quoil         20-SDMS-02         Fig. 30           12         12         Stroin Clomp, 3 U-Bolts Type For Merlin         20-SDMS-02         Fig. 29           13         14         Anchor Shackle         20-SDMS-02         Fig. 29           14         12         Clevis Eye Extension         20-SDMS-02         Fig. 21           15         3         Preformed Line Post Insulator Top Tile for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 35           16         6         Double Arming Plate, 100x12x700mm         20-SDMS-02         Fig. 39           17         6         Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 39           18         1         Porollel Groove Comp. Connector for 120.5mm2 ACSR/AW (	05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8			
08         2         Mochine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-sbMs-02         Fig. 15           09         5         Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-sbMs-02         Fig. 15           10         1         Eorthwire Suspension Support         20-sbMs-02         Fig. 05           11         2         Stroin Clomp, Stroight Line Deodend Type For Quoil         20-sbMs-02         Fig. 30           12         12         Stroin Clomp, 3 U-Bolts Type For Merlin         20-sbMs-02         Fig. 29           13         14         Anchor Shackle         20-sbMs-02         Fig. 20           14         12         Clevis Eye Extension         20-sbMs-02         Fig. 21           15         3         Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)         20-sbMs-02         Fig. 21           16         6         Double Arming Plate, 100x12x700mm         20-sbMs-02         Fig. 07           17         6         Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)         20-sbMs-02         Fig. 39           18         1         Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoii)         20-sbMs-02         Fig. 39           19         63M         Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)	06	12 Set	Suspension Insulotor	15-SDMS-01	Page 23			
09         5         Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher         20-SDMS-02         Fig. 15           10         1         Eorthwire Suspension Support         20-SDMS-02         Fig. 05           11         2         Stroin Clomp, Stroight Line Deodend Type For Quoil         20-SDMS-02         Fig. 30           12         12         Stroin Clomp, 3 U-Bolts Type For Merlin         20-SDMS-02         Fig. 29           13         14         Anchor Shackle         20-SDMS-02         Fig. 20           14         12         Clevis Eye Extension         20-SDMS-02         Fig. 21           15         3         Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 21           16         6         Double Arming Plate, 100x12x700mm         20-SDMS-02         Fig. 07           17         6         Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)         20-SDMS-02         Fig. 39           18         1         Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)         20-SDMS-02         Fig. 39           19         63M         Stoy Wire, 7/4, 12mm Dio, HDG Steel, UTS 101kN (Min)         20-SDMS-02         Fig. 49/50           21         1 Set         Danger Sign Plate Complete With Its Accessories <td< td=""><td>07</td><td>24</td><td>Mochine Bolt, M20x60mm W/1 Nut, 2 Flot Washers &amp; 1 Spring Wosher</td><td>20-SDMS-02</td><td>Fig. 15</td></td<>	07	24	Mochine Bolt, M20x60mm W/1 Nut, 2 Flot Washers & 1 Spring Wosher	20-SDMS-02	Fig. 15			
10	08	2	Mochine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15			
11	09	5	Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15			
12       12       Stroin Clomp, 3 U-Bolts Type For Merlin       20-SDMS-02       Fig. 29         13       14       Anchor Shackle       20-SDMS-02       Fig. 20         14       12       Clevis Eye Extension       20-SDMS-02       Fig. 21         15       3       Preformed Line Post Insulator Top Tie for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 35         16       6       Double Arming Plate, 100x12x700mm       20-SDMS-02       Fig. 07         17       6       Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 39         18       1       Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)       20-SDMS-02       Fig. 39         19       63M       Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)       20-SDMS-02       Fig. 39         20       2 Set       M.VD.C. Two Stoy Assembly       20-SDMS-02       Drw. 307         21       1 Set       Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2       Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 51         25       1 Set       Pole Numbering Plates <t< td=""><td>10</td><td>1</td><td>Eorthwire Suspension Support</td><td>20-SDMS-02</td><td>Fig. 05</td></t<>	10	1	Eorthwire Suspension Support	20-SDMS-02	Fig. 05			
13       14       Anchor Shackle       20-SDMS-02       Fig. 20         14       12       Clevis Eye Extension       20-SDMS-02       Fig. 21         15       3       Preformed Line Post Insulotor Top Tie for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 35         16       6       Double Arming Plate, 100x12x700mm       20-SDMS-02       Fig. 07         17       6       Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 39         18       1       Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)       20-SDMS-02       Fig. 39         19       63M       Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)       20-SDMS-02       Fig. 39         20       2 Set M.VD.C. Two Stoy Assembly       20-SDMS-02       Drw. 307         21       1 Set Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Drw. 307         22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2       Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 51         25       1 Set Pole Numbering Plates       20-SDMS-02       Fig. 51         25       1 Set Pole Numbering Plates       20-SDMS-02       Fig. 51	11	2	Stroin Clomp, Stroight Line Deodend Type For Quoil	20-SDMS-02	Fig. 30			
14       12       Clevis Eye Extension       20-SDMS-02       Fig. 21         15       3       Preformed Line Post Insulotor Top Tie for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 35         16       6       Double Arming Plate, 100x12x700mm       20-SDMS-02       Fig. 07         17       6       Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 39         18       1       Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)       20-SDMS-02       Fig. 39         19       63M       Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)       20-SDMS-02       Fig. 39         20       2 Set       M.VD.C. Two Stoy Assembly       20-SDMS-02       Drw. 307         21       1 Set       Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2       Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 51         24       1 Set       Pole Numbering Bose Plate       20-SDMS-02       Fig. 51         25       1 Set       Pole Numbering Plates       20-SDMS-02       Fig. 51	12	12	Stroin Clomp, 3 U—Bolts Type For Merlin	20-SDMS-02	Fig. 29			
15   3   Preformed Line Post Insulotor Top Tie for 170.5mm2 ACSR/AW (Merlin)   20-SDMS-02   Fig. 35     16   6   Double Arming Plate, 100x12x700mm   20-SDMS-02   Fig. 07     17   6   Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)   20-SDMS-02   Fig. 39     18   1   Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)   20-SDMS-02   Fig. 39     19   63M   Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)   20   2 Set   M.VD.C. Two Stoy Assembly   20-SDMS-02   Drw. 307     21   1 Set   Danger Sign Plate Complete With Its Accessories   20-SDMS-02   Fig. 49/50     22   18M   Anti-Climbing Device, Borbed Wire   20-SDMS-02   Fig. 13     23   2   Buckle Type, Locking Clip for Borbed Wire   20-SDMS-02   Fig. 13     24   1 Set   Pole Numbering Bose Plote   20-SDMS-02   Fig. 51     25   1 Set   Pole Numbering Plates   20-SDMS-02   Fig. 51     26   SDMS-02   Fig. 51   Set   Pole Numbering Plates   20-SDMS-02   Fig. 51     27   SDMS-02   Fig. 51   SET   SDMS-02   Fig. 51   SDMS-02   Fig. 51   SET   SDMS-02   Fig. 51   SET   SDMS-02   Fig. 51   SD	13	14	Anchor Shackle	20-SDMS-02	Fig. 20			
16       6       Double Arming Plate, 100x12x700mm       20-SDMS-02       Fig. 07         17       6       Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 39         18       1       Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)       20-SDMS-02       Fig. 39         19       63M Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)       20-SDMS-02       Fig. 39         20       2 Set M.VD.C. Two Stoy Assembly       20-SDMS-02       Dnw. 307         21       1 Set Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2 Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 13         24       1 Set Pole Numbering Bose Plote       20-SDMS-02       Fig. 51         25       1 Set Pole Numbering Plates       20-SDMS-02       Fig. 51	14	12	Clevis Eye Extension	20-SDMS-02	Fig. 21			
17       6       Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)       20-SDMS-02       Fig. 39         18       1       Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)       20-SDMS-02       Fig. 39         19       63M       Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)       20-SDMS-02       Fig. 39         20       2 Set M.VD.C. Two Stoy Assembly       20-SDMS-02       Drw. 307         21       1 Set Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2 Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 13         24       1 Set Pole Numbering Bose Plote       20-SDMS-02       Fig. 51         25       1 Set Pole Numbering Plates       20-SDMS-02       Fig. 51	15	3	Preformed Line Post Insulotor Top Tie for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35			
18         1         Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)         20-SDMS-02         Fig. 39           19         63M         Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)         20-SDMS-02         Drw. 307           20         2 Set         M.VD.C. Two Stoy Assembly         20-SDMS-02         Drw. 307           21         1 Set         Danger Sign Plate Complete With Its Accessories         20-SDMS-02         Fig. 49/50           22         18M         Anti-Climbing Device, Borbed Wire         20-SDMS-02         Fig. 13           23         2         Buckle Type, Locking Clip for Borbed Wire         20-SDMS-02         Fig. 51           24         1 Set         Pole Numbering Bose Plote         20-SDMS-02         Fig. 51           25         1 Set         Pole Numbering Plates         20-SDMS-02         Fig. 51	16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07			
19 63M Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)  20 2 Set M.V.—D.C. Two Stoy Assembly 20—SDMS—02 Drw. 307  21 1 Set Danger Sign Plate Complete With Its Accessories 20—SDMS—02 Fig. 49/50  22 18M Anti—Climbing Device, Borbed Wire 20—SDMS—02 Fig. 13  23 2 Buckle Type, Locking Clip for Borbed Wire 20—SDMS—02 Fig. 13  24 1 Set Pole Numbering Bose Plote 20—SDMS—02 Fig. 51  25 1 Set Pole Numbering Plates 20—SDMS—02 Fig. 51	17	6	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39			
20       2 Set       M.VD.C. Two Stoy Assembly       20-SDMS-02       Drw. 307         21       1 Set       Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2       Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 13         24       1 Set       Pole Numbering Bose Plote       20-SDMS-02       Fig. 51         25       1 Set       Pole Numbering Plates       20-SDMS-02       Fig. 51	18	1	Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)	20-SDMS-02	Fig. 39			
21       1 Set       Danger Sign Plate Complete With Its Accessories       20-SDMS-02       Fig. 49/50         22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2 Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 13         24       1 Set       Pole Numbering Bose Plote       20-SDMS-02       Fig. 51         25       1 Set       Pole Numbering Plates       20-SDMS-02       Fig. 51	19	63M	Stoy Wire, 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)					
22       18M       Anti-Climbing Device, Borbed Wire       20-SDMS-02       Fig. 13         23       2       Buckle Type, Locking Clip for Borbed Wire       20-SDMS-02       Fig. 13         24       1 Set       Pole Numbering Bose Plote       20-SDMS-02       Fig. 51         25       1 Set       Pole Numbering Plates       20-SDMS-02       Fig. 51	20	2 Set	M.V.—D.C. Two Stoy Assembly		Drw. 307			
23 2 Buckle Type, Locking Clip for Borbed Wire 20–SDMS–02 Fig. 13  24 1 Set Pole Numbering Bose Plote 20–SDMS–02 Fig. 51  25 1 Set Pole Numbering Plates 20–SDMS–02 Fig. 51	21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50			
24         1 Set         Pole Numbering Bose Plote         20-SDMS-02         Fig. 51           25         1 Set         Pole Numbering Plates         20-SDMS-02         Fig. 51	22	18M	Anti-Climbing Device, Borbed Wire	20-SDMS-02	Fig. 13			
25 1 Set Pole Numbering Plates 20-SDMS-02 Fig. 51	23	2	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13			
	24	1 Set	Pole Numbering Bose Plote	20-SDMS-02	Fig. 51			
170.5mm2 ACSR/AW, MERLIN	25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51			
170.5mm2 ACSR/AW, MERLIN								
170.5mm2 ACSR/AW, MERLIN					į.			
170.5mm2 ACSR/AW, MERLIN								
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170.5mm2 ACSR/AW, MERLIN								
<u> </u>			170.5mm2 ACSR/AW, MERLIN					

DRW.116A-OC15S/D, 15M, DOUBLE CIRCUIT, MEDIUM ANGLE STRUCTURE 16°-60° WITH STAYS

Saudi Electricity Company الشركة السعودية للكهرباء SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS Dated: 24-06-2003 <u>(6)</u> 34 1200 550 1200 600 11)13 50 (19) (1)(13) (20) (12) \*\*\*\* 20) (5)(15) DRW.117-OC15S/D, 15M, DOUBLE CIRCUIT HEAVY ANGLE STRUCTURE, 61°-90° WITH STAYS ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES			
01	1	OC15S/D - 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38		
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02 Fig. 01			
03	6	Broce - L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04			
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02 Fig. 04			
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8		
06	12 Set	Suspension Insulotor	15-SDMS-01	Page 23		
07	24	Mochine Bolt, M20x60mm W/1 Nut, 2 Flot Washers & 1 Spring Wosher	20-SDMS-02	Fig. 15		
08	2	Mochine Bolt, M20x225mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15		
09	5	Mochine Bolt, M20x265mm W/1 Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15		
10	1	Eorthwire Suspension Support	20-SDMS-02	Fig. 05		
11	2	Stroin Clomp, Stroight Line Deodend Type For Quoil	20-SDMS-02	Fig. 30		
12	12	Stroin Clomp, 3 U—Bolts Type For Merlin	20-SDMS-02	Fig. 29		
13	14	Anchor Shackle	20-SDMS-02	Fig. 20		
14	12	Clevis Eye Extension	20-SDMS-02	Fig. 21		
15	3	Preformed Line Post Insulotor Top Tie for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35		
16	6	Double Arming Plote, 100x12x700mm	20-SDMS-02	Fig. 07		
17	6	Porollel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02 Fig. 39			
18	1	Porollel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quoil)	20-SDMS-02	Fig. 39		
19	63M	Stay Wire 7/4, 12mm Dio. HDG Steel, UTS 101kN (Min)				
20	2 Set	M.V.—D.C. Two Stoy Assembly	20-SDMS-02 Drw. 307			
21	1 Set	Donger Sign Plote Complete With Its Accessories	20-SDMS-02 Fig. 49/5			
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig			
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13			
24	1 Set	Pole Numbering Bose Plote	20-SDMS-02	Fig. 51		
25	1 Set	Pole Numbering Plotes	20-SDMS-02	Fig. 51		
,						
		170.5mm2 ACSR/AW, MERLIN				

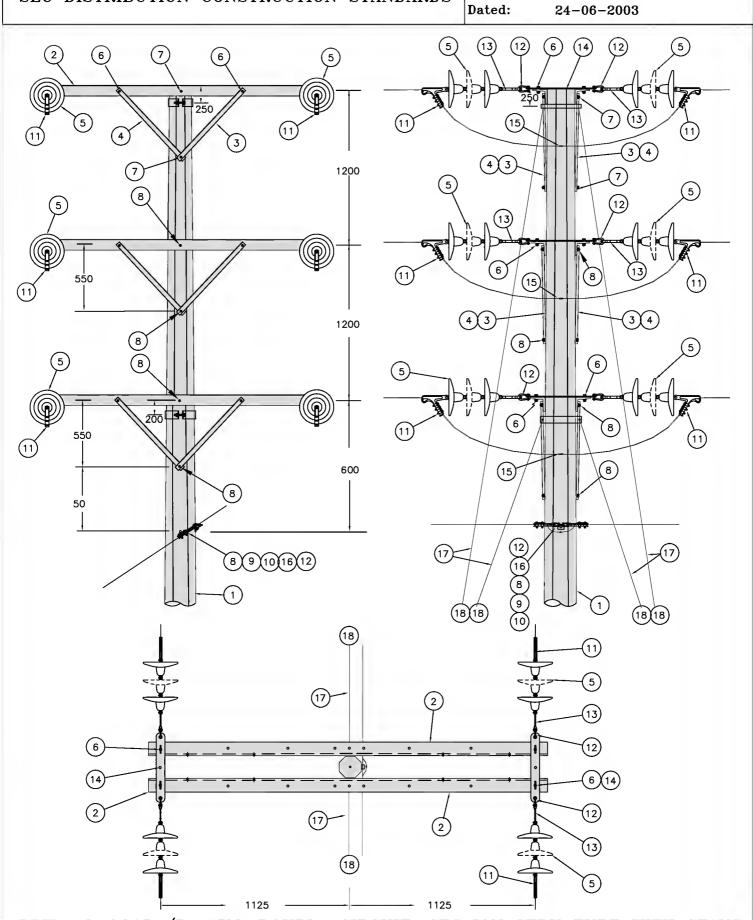
DRW.117A-OC15S/D, 15M, DOUBLE CIRCUIT, HEAVY ANGLE STRUCTURE 61°-90° WITH STAYS



### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01



DRW.118-OC15S/D, 15M, DOUBLE CIRCUIT, SECTION STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES			
01	1	OC15S/D — 15 Meter Steel Pale, HDG, Dauble Circuit	20-SDMS-01	Page 38		
02	6	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01		
03	6	Brace — L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04			
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02 Fig. 04			
05	12 Set	Suspensian Insulatar	15-SDMS-01	Page 23		
06	24	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
07	2	Machine Balt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
08	5	Machine Balt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
09	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05		
10	2	Strain Clamp, Straight Line Deadend Type For Quail	20-SDMS-02	Fig. 30		
11	12	Strain Clamp, 3 U—Balts Type Far Merlin	20-SDMS-02	Fig. 29		
12	14	Anchar Shackle	20-SDMS-02	Fig. 20		
13	12	Clevis Eye Extensian	20-SDMS-02	Fig. 21		
14	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07		
15	6	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39		
16	1	Parallel Graave Camp. Cannectar far 67.44mm2 ACSR/AW (Quail) 20-SDMS-02				
17	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)				
18	1 Set	M.V.—D.C. Sectian Stay Assembly	20-SDMS-02	Drw. 308		
19	1 Set	Danger Sign Plate Camplete With Its Accessaries 20		Fig. 49/50		
20	18M	Anti—Climbing Device, Barbed Wire		Fig. 13		
21	2	Buckle Type, Lacking Clip far Barbed Wire		Fig. 13		
22	1 Set	Pole Numbering Base Plate		Fig. 51		
23	3 1 Set Pole Numbering Plates		20-SDMS-02	Fig. 51		
		170.5mm2 ACSR/AW, MERLIN				

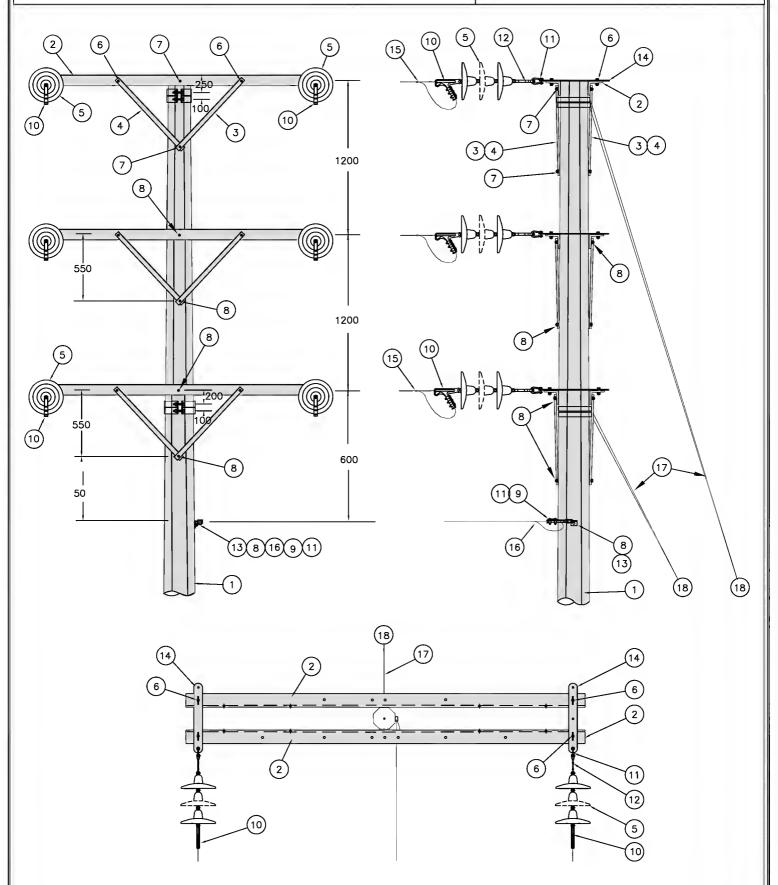
DRW.118A-OC15S/D,15M, DOUBLE CIRCUIT, SECTION STRUCTURE WITH STAYS



### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01
Dated: 24-06-2003



DRW.119-OC15S/D,15M, DOUBLE CIRCUIT, TERMINAL STRUCTURE WITH STAYS



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

SEC DISTRIBUTION		ibolion	CONSTRUCTION	STANDANDS	Dated:	24-06	24-06-2003		
SERIAL	QTY		BILL OF MATERI	ALS DESCRIPTION	)N		REFERENCES		

SERIAL NO.	<b>QTY</b> 1	BILL OF MATERIALS DESCRIPTION	REFERENCES		
01		OC15S/D - 15 Meter Steel Pole, HDG, Double Circuit		Page 38	
02	6	Crossarm — L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01	
03	6	Brace — L 50x50x4x828mm L.G.	20-SDMS-02 Fig. 04		
04	6	Brace — L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04	
05	6 Set	Suspension Insulator	15-SDMS-01	Page 23	
06	24	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15	
07	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
08	5	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
09	1	Strain Clamp, Straight Line Deadend Type For Quail	20-SDMS-02	Fig. 30	
10	6	Strain Clamp, 3 U—Bolts Type For Merlin	20-SDMS-02	Fig. 29	
11	7	Anchor Shackle	20-SDMS-02	Fig. 20	
12	6	Clevis Eye Extension	20-SDMS-02	Fig. 21	
13	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05	
14	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07	
15	6	Parallel Groove Clamp, Three Bolt Type for Merlin ACSR Conductor	20-SDMS-02	Fig.	
16	1	Parallel Groove Clamp, Two Bolt Type for Quail ACSR Conductor	20-SDMS-02	Fig.	
17	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)			
18	2 Set	M.VD.C. Two Stay Assembly	20-SDMS-02	Drw. 307	
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/5	
20	18M	Anti—Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13	
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13	
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51	
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51	
<u> </u>					
Ī					
V					
		170.5mm2 ACSR/AW, MERLIN			

DRW.119A-OC15S/D, 15M, DOUBLE CIRCUIT, TERMINAL STRUCTURE W/STAYS